

AMENDMENTS TO THE SPECIFICATION

Please amend the fourth full paragraph of page 8 as follows:

FIGURE 1 illustrates a cut along the longitudinal axis of the feed dispersing system that is the object of the present invention, herein represented by a drawing in longitudinal cut according to the Brazilian Standard ABNT NBR 10647. The system is made up of an outer conduit (300) and inner conduit (200), annular space (210), atomization fluid inlet (9400) and hydrocarbon liquid feed inlet (500), besides an atomization unit (100) that partially enters the interior of the riser (not represented) of the FCC unit. The atomization unit (100) has central nozzles (110) for atomization fluid and side nozzles (120) for liquid feed.

Please insert before the section titled DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS at page 7, the following:

FIGURE 5 shows a top or superior view of two offset rows of four feed-dispersion systems according to the present invention, radially coupled to an FCC riser, at two riser levels.

FIGURE 6 shows a perspective view of two offset rows of four feed-dispersion systems according to the present invention, each radially coupled to an FCC riser, at two riser levels.

Please insert at page 12, at line 17, after the fifth full paragraph, the following:

FIGURES 5 and 6 illustrate an embodiment having two offset rows of four feed-dispersion systems according to the invention, radially coupled to the riser of a fluid catalytic cracking unit, at two riser levels, at an elevation angle between 30 and 70°.

FIGURE 5 is a top or superior view of two offset rows of four feed-dispersion systems radially coupled to, or installed in, an FCC riser, where the direction of each of the four systems is upward and the overall spatial arrangement is illustrated. The interior of the riser (601) is shown as being filled with a network of the intermingled, vaporized feed and atomization fluid. The concept of the invention encompasses other configurations where two, six or more of said systems are radially coupled to a riser in a fluid catalytic cracking unit.

FIGURE 6 is a perspective view showing two offset rows of four feed-dispersion systems according to the invention, each radially coupled to an FCC riser.

In FIGURES 5 and 6, the flanges (500) for the introduction of pre-heated liquid feed, the flanges (400) for the introduction of the atomization fluid, the outer conduits (300), the mixing chambers (101), and a portion of the FCC unit riser (600) and the interior thereof (601), are illustrated.

Please insert the attached page 14/18 and 15/18.

These pages of the specification were filed with the original specification, but Applicants are submitting copies of these pages based on the Examiner's indication that these two pages are now missing from the specification.